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ABSTRACT

An update to the Validation, Edits, and Application Processing and Error-Prone Model Report (Section 1, July 3, 1980) is presented. The objective is to present the most current data obtained from the June 1980 Basic Educational Opportunity Grant applicant and recipient files and to determine whether the findings reported in Section 1 of the July report would have been changed if based on the latest data. It was found that the June data and the findings from the latest file runs are very similar, with the exception of the number of applicants. The corrections behavior of applicants changed little when April and June data are compared. About one-fourth of all applicants who were ever determined to be eligible corrected a key application field. The majority of corrections were solicited by a processing system edit. Nearly half of the solicited corrections were inconsequential and had no impact on the applicant's Student Eligibility Index. Corrections behavior is indicated by the critical field corrected from the application. In comparing April and June applicant and recipient data, little difference was found in the behavior and current status of applicants rejected by the processing. The application characteristics of applicants most likely to be rejected remained almost the same as those reported in previous reports. (SW)

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ED273222

Prepared for:

Office of Student Financial Assistance
Department of Education

G-170

UPDATE: VALIDATION, EDITS AND APPLICATION PROCESSING PHASE II AND ERROR-PRONE MODEL REPORT

August 29, 1980

In Response to:

Contract No. 300-79-0742

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QUALITY CONTROL ANALYSIS OF SELECTED ASPECTS OF PROGRAMS ADMINISTERED BY THE BUREAU OF STUDENT FINANCIAL ASSISTANCE

This report was prepared pursuant to Contract No. 300-79-0742. The names of the persons employed by the contractor with managerial or professional responsibility for such work are as follows:

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August 29, 1980

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Washington, D.C. 20202

Reference: Update to the Validation, Edits and Application Processing Phase II Report Contract No. 300-79-0742 (AMS No. 3-[illegible])

Dear Ms. Cowan:

We are pleased to submit copies of the Update to the Validation, Edits and Application Processing Phase II Report. This report was prepared by Ms. Susan Gray, Mr. John Neely, and Ms. JoAnn Kuchak, Project Director. We shall be pleased to respond to any questions you may have about this document.

Sincerely,

APPLIED MANAGEMENT SCIENCES, INC.

Todd S. Tucker, Ph.D.
President

TST/rcc
Enclosure

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UPDATE TO THE VALIDATION EDITS AND APPLICATION PROCESSING SYSTEM PHASE II AND ERROR-PRONE MODEL REPORT

This report updates Section 1 of the July 3, 1980 Validation, Edits and Application Processing and Error-Prone Model Report. The purpose of this update is to present the most current data obtained from the June BEOG applicant and recipient files and to ascertain whether the findings reported in Section 1 of the July report would have changed if based on the latest data. Our analyses indicate that, with the exception of the number of individuals who are on the recipient file, the June data and thus the findings from the latest file runs are exceptionally similar to those reported earlier. The data show that an insignificant number of individuals (4,522) were added to the applicant file. As might be expected, the addition of this small group of applicants produced no significant changes in the number and types of comments generated, the number of applicants rejected and the reasons for rejection, or the effectiveness of the PEC and validation. The fact that use of June data allowed applicants more time to complete the application and award process did, however, result in significantly more individuals becoming recipients. The June data show over two hundred thousand more individuals on the recipient file than the April data. (Table 1 which follows summarizes these changes).

Since the data from the June files are so similar to those reported earlier, only the key data tables will be updated for this report. In addition, only a brief narrative will accompany each updated table. If additional information is desired, the appropriate section of the July 3 VEAPS and Error-Prone Model Report should be consulted.

TABLE 1: UPDATES: SUMMARY DATA

	Phase II (April File)	Phase III (June File)
Total # of Applicants	3,966,448	3,970,970
Total # of Recipients	1,915,510	2,181,270
Total Ever Rejected Applicants	36%	36%
Total Always Rejected Applicants	28.5%	28.1%
Total Ever Eligible/Ineligible Applicants	2,836,186	2,855,338
Total Validation Applicants	212,362	212,348*
Meeting PEC	166,348	166,106*
Random	46,014	46,242
Total Nonvalidation Applicants	2,623,824	2,642,990
Meeting PEC	506,912	519,134
Not Meeting PEC	2,116,912	2,123,856
Total Validation Applicants Meeting PEC A	137,618	137,820
Total Validation Applicants Meeting PEC B	21,140	21,152
Total Validation Applicants Meeting PEC C	13,274	13,094
Total Validation Applicants Meeting PEC D	81,266	81,012*

* The total number of validation applicants, as well as the total number meeting PEC and the number in PEC groups C and D are less in the update than reported in the last report. This slight difference can be attributed to sampling variance.

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1. The Edit System

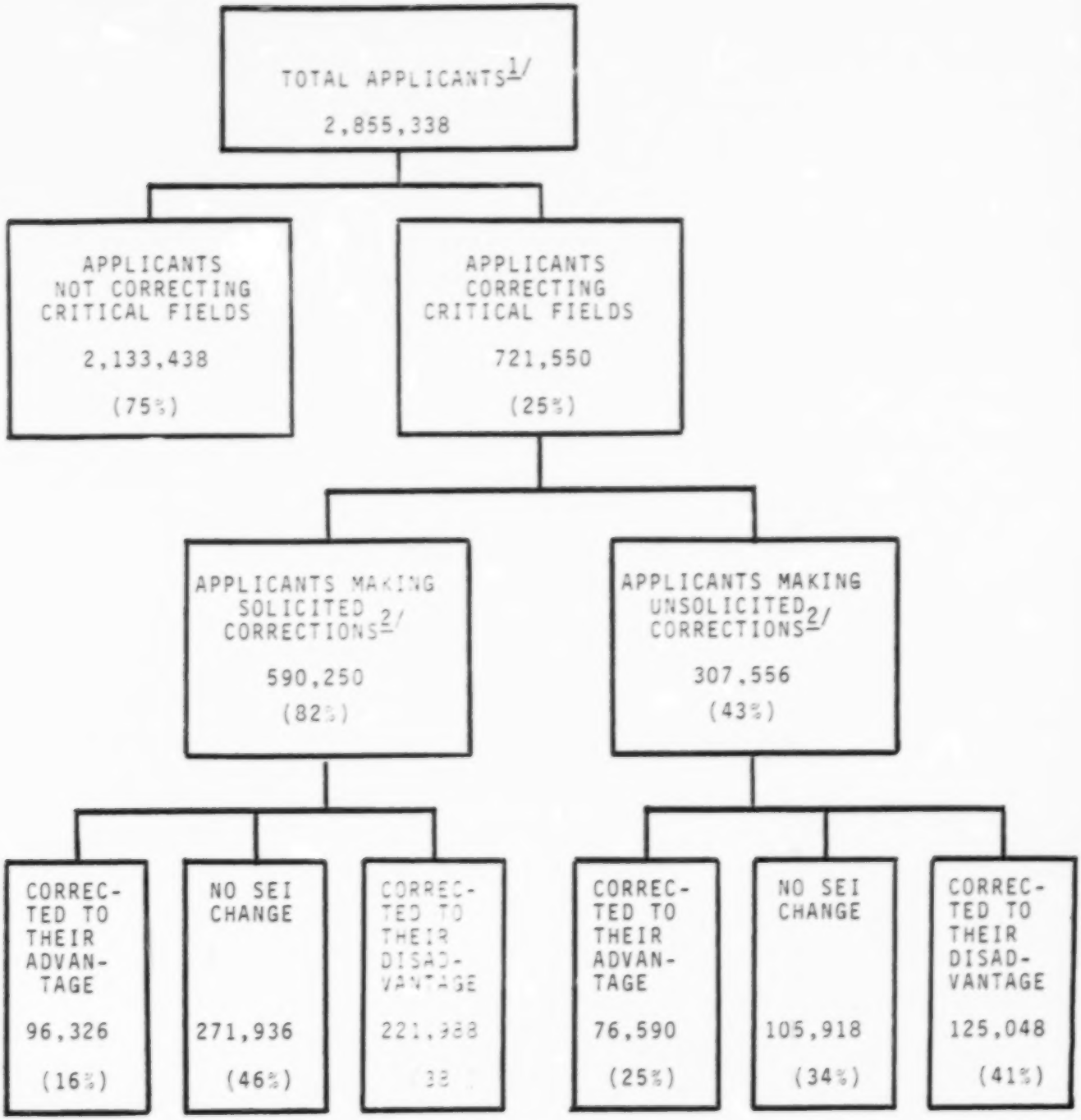
The corrections behavior of applicants has changed little when a comparison is made between the April and June data. As Exhibit 1 indicates, about one fourth of all applicants who were ever determined to be eligible corrected a key application field. The majority of corrections were solicited by a processing system edit. Nearly half of the solicited corrections were inconsequential; that is, they had no impact on the applicant's SEI. Fewer unsolicited corrections (corrections not in response to an edit) were unconsequential. In general, corrections that had an impact on the SEI tended to decrease, rather than increase, award potential.

Table 2, which follows, presents the corrections behavior by the critical field corrected. As the table indicates, the four key income fields were most often changed. The majority of corrections to these four fields were solicited by the edits; corrections to these fields tended to be to the applicants' disadvantage.

A comparison of the April 1980 applicant and recipient data used in the Phase II report with the June data of this report shows little difference in the behavior and current status of applicants rejected by the processing system. By June, 36 percent of all applicants had been rejected. As Exhibit 2 indicates, 79 percent (up from the 78% in April) of those who received a rejection edit had responded properly to the edit comment (i.e., either corrected or verified the data in question) and received an eligibility determination.

The application characteristics of applicants most likely to be rejected remained almost the same as those reported in previous reports. As can be seen in Table 3, leaving critical field application data blank, reporting marital status as deceased, or having high unusual expenses or certain levels of veteran's benefits most often resulted in rejection. Except for those applicants with missing data or a "deceased" marital status, applicants with the following listed characteristics tended to re-enter the processing system and obtain an SEI at relatively high

EXHIBIT 1 : SUMMARY OF APPLICANT CORRECTIONS



1/ Refers to the total number of applicants who ever received an eligible SEI.
2/ Note that many applicants made both solicited and unsolicited corrections.

TABLE 2: DIRECTION AND MAGNITUDE OF CORRECTIONS BY CRITICAL FIELD

FIELDS	VALIDATION APPLICANTS' CORRECTIONS						NONVALIDATION APPLICANTS' CORRECTIONS					
	PRE-SELECTION			POST-SELECTION			PRE-ELIGIBILITY			POST-ELIGIBILITY		
	Number Correcting	Average SEI Change	% In Response To Comment	Number Correcting	Average SEI Change	% In Response To Comment	Number Correcting	Average SEI Change	% In Response To Comment	Number Correcting	Average SEI Change	% In Response To Comment
Adjusted Gross Income	81,608 [1]	+72 [2]	90.2%	38,274	+184	28.6%	248,864	+99	87.8%	49,192	+68	22.6%
Taxes Paid	51,854	+96	90.0	30,044	+167	12.6	195,776	+91	88.3	36,848	+63	8.0
Portions	52,906	+14	79.7	22,872	+149	15.2	176,596	+40	67.0	33,134	+62	13.5
Nontaxable Income	43,526	-167	56.3	30,444	+86	54.4	148,078	+98	67.6	44,492	+68	23.9
Veteran's Ed. Benefits	6,430	-204	92.7	2,516	+101	76.0	27,468	+48	86.0	8,638	-49	78.9
Household Size	14,268	-311	41.9	11,712	-276	8.1	66,486	-13	36.7	19,110	+14	21.6
Post-High Ed.	9,942	-224	50.7	9,134	+127	6.7	50,960	+78	29.8	13,216	-33	32.1
Net Assets	20,090	-349	37.5	5,712	+162	19.1	96,908	+12	56.4	18,144	+60	14.5
Unusual Expenses	38,252	-273	73.5	10,916	+325	62.4	67,480	+232	48.9	6,384	+75	39.5
Applicant's Resources	5,814	-522	68.9	1,356	+104	31.7	14,462	+77	16.7	3,752	-12	16.0
Marital Status	8,318	-264	43.9	2,668	+201	10.6	52,164	-24	36.8	9,044	+37	18.3
Unreimbursed Tuition	5,044	+59	76.2	1,524	+139	31.6	13,888	+107	60.3	3,066	+41	14.6
Model	2,954	-343	8.6	1,644	+143	1.7	27,958	+67	7.7	5,250	+26	4.0
Tax Filing Status	22,334	-73	71.1	11,118	+116	3.0	145,180	+57	69.1	19,530	+14	9.0

[1] The frequencies are unduplicated totals within, but not between groups. For example, an applicant who made three corrections to adjusted gross income, twice pre-selection and once post-selection, is counted once in the pre-selection frequency and once in the post-selection frequency.

[2] The SEI changes are for all corrections, solicited by comments and unsolicited, and are calculated from the time of correcton to the most recent transaction.

EXHIBIT 2 : SUMMARY OF CURRENT STATUS OF APPLICANTS EVER REJECTED

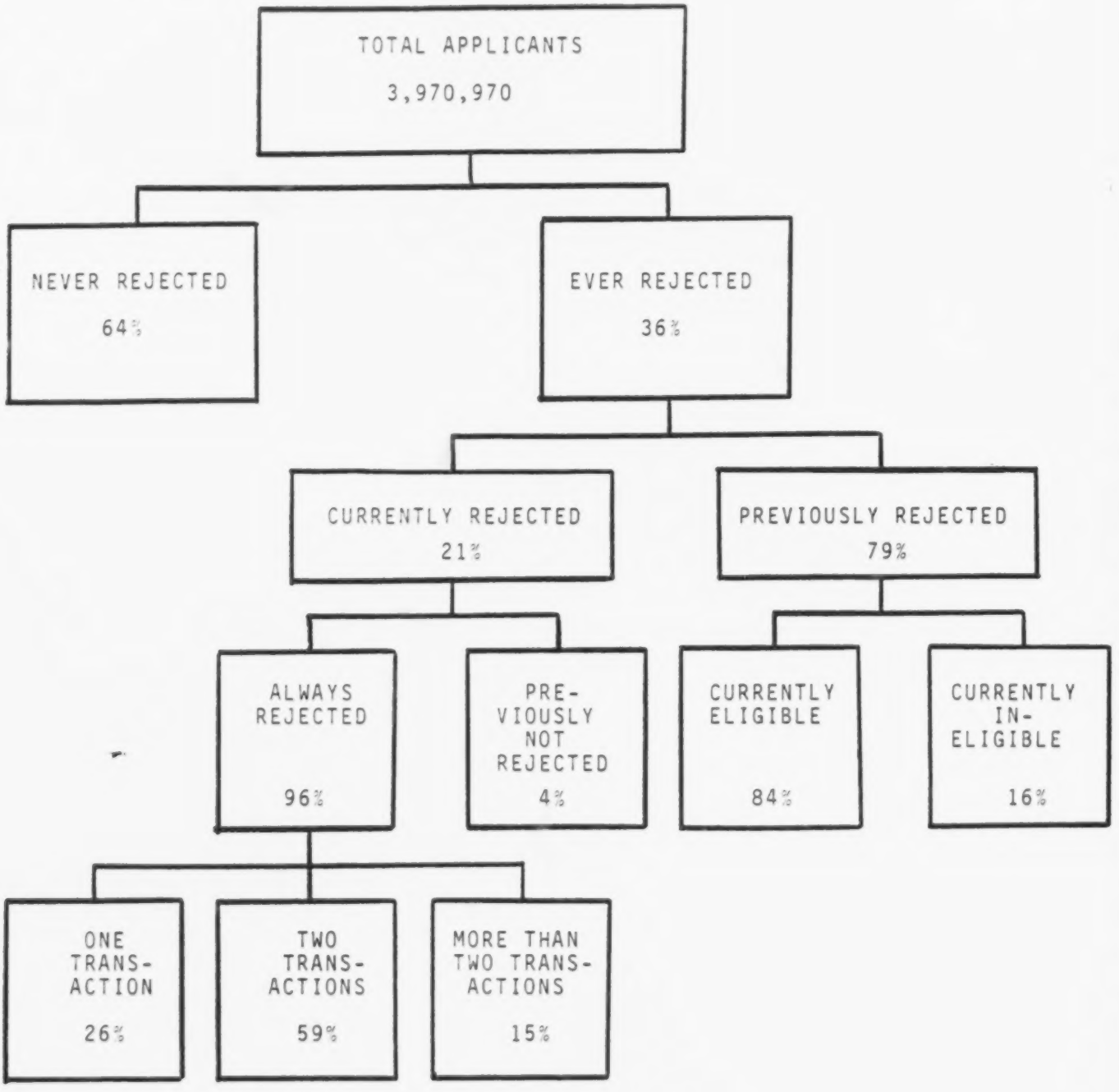


TABLE 3: APPLICATION CHARACTERISTICS MOST OFTEN CAUSING REJECTION

Application Characteristic	Number of Applicants With Characteristic	% Ever Rejected	% Remained Rejected Two or More Transactions
MS - DECEASED	1,708	100.0%	83.6%
UE - $9,000+	4,538	100.0	25.6
UE - $6,001-9,000	4,240	99.3	12.2
AGI - BLANK	78,184	97.3	77.1
HS - BLANK	35,048	94.1	71.1
PHE - BLANK	30,700	93.2	70.5
FARM ASSETS - $1-999	6,058	68.1	9.9
VEB - $1,001-2,000	79,248	63.2	8.0
VEB - $7,000+	1,090	62.0	18.0
TP - BLANK	140,724	59.5	37.8
NTI - $12,500+	28,296	57.4	9.1
VEB - $6,001-7,000	762	52.8	20.2
UT - BLANK	543,298	50.7	13.0
MS - WIDOWED	275,056	49.6	5.3
EARNED INCOME PORTIONS-TWO	222,404	49.3	6.6

rates. Applicants with blank data fields relatively seldom re-entered the system while those reporting marital status as deceased were almost always excluded because of the design of the application form and the 1979-80 system edits.

As previous reports have demonstrated, the processing system edits do not appear to be discriminating against any particular group except those applicants reporting very low incomes. (Rejection edit F screens all applicants reporting an income less than $51). In Exhibit 3 the rejection rates of independent and dependent applicants are displayed by income range. As the exhibit indicates, over 95 percent of the zero and negative income applicants, (most of whom were independents), were rejected; the rejection rates of the other income groups show little variation. Rejected zero and negative income applicants continued to have much more difficulty re-entering the system, with, as Tables 4 and 5 show, a much higher percentage of these applicants remaining rejected for two or more transactions.

Low income is not the most frequent reason for rejection. As the Table 6 indicates, the most frequent rejection reasons and their corresponding edit(s) are:

Rejection Reason	Edit(s)	Number Who Received
1) Missing key data	7, 8, 16 and 17	237,202
2) Taxes paid inconsistent w/adjusted gross income	A and 6	216,144
3) Earned portions inconsistent with adjusted gross income	D	191,012
4) Very low income	F	173,354
5) High unusual expenses	E	110,324

Debts greater than assets and the number of earned portions inconsistent with marital status were other frequent causes of rejection. The least frequently issued reject reasons included C (HS greater than 18); I and K, (debts greater than investment or farm assets) and U (VA match-blank or zero).

EXHIBIT 3 : REJECTION RATES BY INCOME, DEPENDENTS VS. INDEPENDENTS

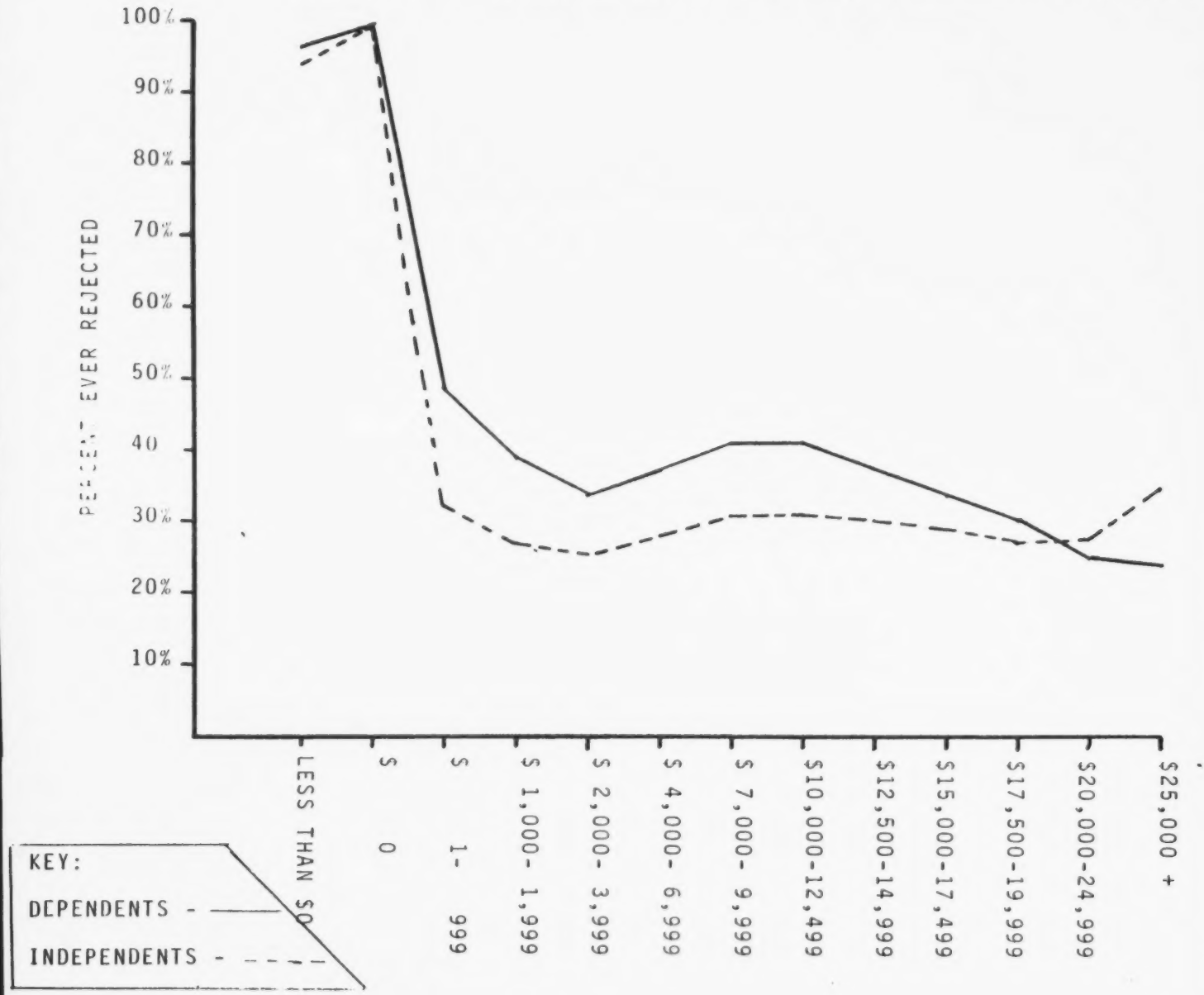


TABLE 4: SUMMARY OF REJECTION HISTORY OF ALL APPLICANTS BY INCOME LEVEL

Income Level:	Ever Rejected — Currently Rejected: Rejected one Transaction	Ever Rejected — Currently Rejected: Rejected Two or More Transactions	Previously Rejected, Currently Eligible or Ineligible	Never Rejected	# of Applicants in Income Range/ % of Population
Less than $0	2.8%	7.4%	85.9%	3.9	10,350 (0)
0	7.9	29.9	61.9	.3	173,414 (4.4)
1 - 999	2.2	5.5	28.3	64.0	131,552 (3.4)
1,000 - 1,999	1.9	3.5	25.4	69.1	158,022 (4.0)
2,000 - 3,999	1.8	3.0	23.9	71.2	439,334 (11.1)
4,000 - 6,999	1.7	3.5	27.8	67.0	570,018 (14.6)
7,000 - 9,000	2.0	3.8	32.0	62.2	436,488 (11.2)
10,000 - 12,499	1.9	3.4	33.6	61.1	307,888 (7.9)
12,500 - 14,999	1.5	2.8	32.2	63.5	265,782 (6.8)
15,000 - 17,499	1.6	2.8	29.3	66.3	250,266 (6.4)
17,500 - 19,999	1.4	2.2	26.3	70.1	235,988 (6.0)
20,000 - 24,999	1.2	2.0	22.7	74.1	399,486 (10.2)
25,000 +	1.6	2.6	20.7	75.1	532,106 (13.6)

TABLE 5: SUMMARY OF THE REJECTION HISTORY OF INDEPENDENT AND DEPENDENT APPLICANTS BY INCOME LEVEL

Income Level	Independent			Dependent		
	# of Applicants	% Ever Rejected	% Remained Rejected Two or More Transactions	# of Applicants	% Ever Rejected	% Remained Rejected Two or More Transactions
Less than $0	996	94.4%	15.5%	9,354	96.3%	6.6%
0	129,048	99.6	25.0	44,366	99.8	44.2
1 - 999	102,464	32.4	3.8	29,088	48.6	11.4
1,000 - 1,999	114,974	27.7	2.6	43,048	39.5	5.9
2,000 - 3,999	278,224	25.6	2.7	161,110	34.2	3.5
4,000 - 6,999	280,754	28.9	3.8	289,264	37.0	3.1
7,000 - 9,999	143,776	31.3	5.1	292,712	41.0	3.1
10,000 - 12,499	67,710	31.4	5.0	240,178	41.0	3.0
12,500 - 14,999	40,006	30.2	4.3	225,776	37.6	2.5
15,000 - 17,499	27,996	29.9	6.0	222,270	34.2	2.4
17,500 - 19,999	18,804	27.6	4.5	217,184	30.1	2.0
20,000 - 24,999	20,438	28.1	5.1	379,048	25.8	1.8
25,000 +	13,528	35.5	8.2	518,578	24.6	2.5
Population Average	1,247,612	36.8	6.6	2,723,358	35.5	4.8

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TABLE 6: DISTRIBUTION OF REJECTED APPLICANTS BY REJECTION REASON AND CORRESPONDING COMMENT

Code/Rejection Reason	Comments	Number Who Received 1/
A - Reported tax greater than 50% AGI	259	1,890
B - Combination verify	- -	113,232
	10	61,448
	12	17,752
	13	11,216
	128	22,180
	247	14
	297	4
	298	294
	299	324
C - HS greater than 18	18	658
D - Portions greater than 120% or 170% AGI	- -	191,012
	27	86,034
	41	27,184
	42	43,944
	234	33,850
E - Unusual expenses greater than income or greater than $8,000	30	110,324
F - Zero, negative, or less than $51 income	- -	173,354
	58	21,488
	98	107,696
	99	17,766
	238	25,490
	300	334
	301	110
	302	66
	303	404
G - Reported tax greater than computed tax by $300 and 5% of computed tax	47	214,254
H - Debts greater than [illegible] - home	179	47,782
I - Debts greater than [illegible] - investments	180	17,302

TABLE 6: (Continued)

Code/Rejection Reason	Comments	Number Who Received 1/
J - Debts greater than assets - business	181	23,446
K - Debts greater than assets - farm	182	6,504
L - Unreimbursed tuition greater than 35% of income	212	26,082
R - Applicant's resources decreased by $300	256	
S - SSA match - blank or zeroes	- -	38,700
	138	35,412
	287	508
	288	2,780
T - SSA match - SS benefits reported	- -	51,592
	139	49,582
	289	134
	290	1,876
U - VA match - blank or zeroes	283	14,752
V - VA reported and less than $131	284	33,328
7 - MS, HS Blank	- -	24,402
	70	14,620
	140	9,782
8 - NTI, AGI and Portions all blank	- -	26,888
	28	12,168
	43	4,598
	44	1,530
	236	8,352
	307	232
	309	216
	310	6
	311	2

TABLE 6: (Continued)

Code/Rejection Reason	Comments	Number Who Received[1/]
9 - Divorced, widowed or unmarried comments	- -	50,070
	24	0
	33	31,200
	35	17,646
	106	1,178
	148	0
	270	0
	308	46
	313	0
16 - AGI blank and portion reported	- -	147,374
	268	28
	271	79,400
	273	37,154
	275	7,978
	277	21,712
	306	34
	315	528
	316	540
17 - TP blank and AGI greater than zero	- -	38,538
	251	18
	269	52
	279	19,430
	280	8,884
	281	3,052
	282	6,140
	312	724
	314	238

[1/] The frequencies are duplicated, given that many applicants received more than one rejection reason.

A comparison of the April and June data also shows very little change in the behavior of applicants in response to the rejection edits (see Table 7). Rejection edits continued to solicit more frequent corrections than the other less stringent edits. Approximately 57 percent of those applicants receiving edits changed the appropriate field(s) in response to the rejection comments, while only 24 percent corrected subsequent to receiving a non-rejection comment. Moreover, corrections following rejection edits also continued to have a greater impact on the applicant's potential award: on the average, corrections in response to rejection edits reduced the applicant's potential award $87, whereas corrections in response to non-rejection edits reduced the award $1.

The individual edits which were identified in the Phase II report as performing either particularly well or poorly when evaluated according to applicant correction behavior have not changed. Reasons F (zero, negative or less than $51), E (UE greater than income or $5,000), and 9 (number of portions earned inconsistent) continued to perform poorly. As Table 7 indicates, few individuals corrected an appropriate field in response to reasons E and F (approximately 23% and 9%, respectively). Over three-fourths of those who did correct did not change their award potential. Moreover, about half of the applicants verified in response to reasons E and F making these two edits, along with edit J (business debts greater than assets), the only edits where a larger number of applicants verified than corrected. A large portion of applicants continued to remain rejected after receiving rejection 9.

The Social Security tape match edits continue to work effectively. Over 75 percent of the appropriate applicants corrected on the first subsequent transaction, none verified, and few remained rejected following a correction.

A high percentage of applicants also continued to correct in response to the four edits associated with missing data. In particular, reject reason 7 which screens applications where both marital status and household size are blank, solicited a high rate of corrections.

TABLE 7: PERCENTAGE OF APPLICANTS CORRECTING RELEVANT CRITICAL FIELDS ON THE TRANSACTION JUST SUBSEQUENT TO RECEIVING A REJECTION EDIT

REJECT REASON CODE	CRITICAL FIELD											
	Adjusted Gross Income	Taxes Paid	Portions	Nontaxable Income	Veteran's Benefits	Net Assets	Marital Status	Household Size	Unusual Expenses	Unreimbursed Tuition	Applicant's Resources	Total Number who Received Edit
A	54%[1]	58%	--	--	--	--	--	--	--	--	--	1,390
B	58	37	14	16		--	--	--	--	--	--	113,232
C	--	--	--	--	--	--	--	73	--	--	--	658
D	37	14	21	--	--	--	--	--	--	--	--	191,012
E	--	--	--	--	--	--	--	--	23	--	--	110,324
F	13	5	9	13	--	--	--	--	--	--	--	173,354
G	32	50	--	--	--	--	--	--	--	--	--	214,254
H	--	--	--	--	--	71	--	--	--	--	--	47,782
I	--	--	--	--	--	54	--	--	--	--	--	17,302
J	--	--	--	--	--	31	--	--	--	--	--	23,446
K	--	--	--	--	--	52	--	--	--	--	--	6,504
L	--	--	--	--	--	--	--	--	--	36	--	26,082
R	--	--	--	--	--	--	--	--	--	--	--	--
S	--	--	--	15	--	--	--	--	--	--	--	38,700
T	--	--	--	15	--	--	--	--	--	--	--	51,592
U	--	--	--	--	42	--	--	--	--	--	--	14,752
V	--	--	--	--	37	--	--	--	--	--	--	33,329
7	--	--	--	--	--	--	80	69				34,402
8	60	51	52	57	--	--	--	--	--	--	--	36,888
9	47	36	17	18	--	--	23	--	22	8	--	50,070
16	70	43	30	--	--	--	--	--	--	--	--	147,374
17	41	72	33	16	--	--	--	--	--	--	--	38,538

[1]/Percentages are based on the total number of applicants who received the reject reason. For example, 54 percent of the 1780 applicants who received reject reason A corrected adjusted gross income on the first subsequent transaction. Percentages within reject reasons are based on duplicated frequencies. An applicant rejected for reason A, for example, might correct both adjusted gross income and taxes paid, and thus would be counted in both percentages.

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2. The Pre-established Criteria and Validation

Comparisons of Phase III data on "number of applicants correcting post-selection," the composite index, and the percentage correcting with no SEI change show that Phase III data is very similar to Phase II data (See Table 8). With the exception of PEC group A-13, no PEC group has greater than five percentage points change in either the number of applicants correcting post-selection or the number correcting with no SEI change; in most cases the change is less than two percentage points. The number of applicants correcting post-selection and the number with no SEI change varied greatly from Phase II for PEC group A-13, however. This is not at all surprising given the small number of subjects in the group and the use of sampling. (Tables 8a-8h which follow show the relative positions of the most effective PEC for Phases II-III.)

As indicated in Tables 8, 8a-h, PEC A-2, A-3, A-5, A-6, A-10, A-11 and B-3 continue to do well when judged solely on the composite change index. When evaluated in light of all factors (percent correcting, average SEI change, composite change index and the percent with no SEI change) PEC subgroups A-2 and A-3 slip somewhat because of the high rate of applicants correcting with no SEI change. As mentioned in the July VEAPS report, this suggests that these criteria are not refined enough to identify only applicants whose corrections will affect their award potential. At the same time, the low scores for the percentage correcting with no SEI change for subgroups A-H and 15, combined with the high percentage of applicants correcting post-selection, indicate that these criteria are very effective in identifying potential misreporters. In sum, the same subgroups as reported previously continue to be most effective. These groups are A-6, A-10, A-11, A-14, A-15 and B-3.

Similarly, when evaluated strictly according to the composite change index, PEC subgroups A-4, A-7, A-13, A-16 and B-1 are the least effective. However, when judged by all factors PEC groups A-1, A-4 and A-13 stand out as being particularly ineffective primarily because of their low composite but high "no SEI change" scores. The low composite indices for groups A-7, A-14 and B-1 are tempered somewhat by their relatively low "no change" scores.

TABLE 8a: COMPARISON PHASES II & III: PEC WITH HIGHEST CORRECTION RATES

Highest Correction Rate

Phase II		Phase III	
Criterion Group	Percent Correcting	Criterion Group	Percent Correcting
D-3	56%	D-3	57%
A-15	52	D-1	52
D-1	51	A-11	52
A-11	51	A-15	50
A-10	49	A-10	49
A-14	49	A-14	49
A-20	43	A-20	44
A-6	42	A-6	43
D-2	42	D-2	42
A-21	40	B-5	42

TABLE 8b: COMPARISON PHASES II & III: PEC WITH LOWEST CORRECTION RATES

Lowest Correction Rate

Phase II		Phase III	
Criterion Group	Percent Correcting	Criterion Group	Percent Correcting
B-4	22%	B-4	24%
A-19	27	A-19	27
C-2	28	A-13	27
A-4	29	C-2	28
A-16	29	A-16	28
A-18	29	A-4	29
B-2	29	A-12	29
A-12	30	B-2	30
A-17	30	A-18	30

TABLE 8c: COMPARISON PHASES II & III: PEC WITH GREATEST SEI CHANGE

Greatest SEI Change

Criterion Group	SEI Change	Criterion Group	SEI Change
A-6	233	A-6	236
B-3	233	A-3	187
A-3	175	B-3	185
A-2	165	A-5	179
A-5	162	A-2	170
A-12	138	A-11	136
A-11	137	A-19	136
A-10	132	A-10	132

TABLE 8d: COMPARISON PHASES II & III: PEC WITH LEAST SEI CHANGE

Least SEI Change

Criterion Group	AEI Change	Criterion Group	SEI Change
A-16	-36	A-16	-61
B-1	-22	B-1	-38
A-7	+21	A-7	+18
A-4	+53	A-4	+54
B-4	+57	A-13	+61
A-18	+62	D-1	+74

TABLE 8e: COMPARISON PHASES II & III: MOST EFFECTIVE PEC BY COMPOSITE CHANGE INDEX

Least Effective by Composite Change Index

Criterion Group	Composite Change Index	Criterion Group	Composite Change Index
A-16	-1044	A-16	-1708
B-1	- 726	B-1	-1330
A-7	+ 735	A-7	+ 648
A-4	+1537	A-4	+ 156
A-18	+1798	A-13	+1647

TABLE 8f: COMPARISON PHASES II & III: LEAST EFFECTIVE PEC BY COMPOSITE CHANGE INDEX

Least Effective by Composite Change Index

Criterion Group	Composite Change Index	Criterion Group	Composite Change Index
A-16	-1044	A-16	-1708
B-1	- 726	B-1	-1330
A-7	+ 735	A-7	+ 648
A-4	+1537	A-4	+ 156
A-18	+1798	A-13	+1647

TABLE 8g: COMPARISON PHASES II & III: PEC WITH GREATEST PERCENTAGE OF APPLICANTS CORRECTING WITH NO SEI CHANGE

Highest Percentage Correcting With No SEI

Criterion Group	Percentage Correcting/No SEI Change	Criterion Group	Percentage Correcting/No SEI Change
A-4	77.9%	A-4	77.8%
A-12	54.8	A-12	58.5
A-5	45.5	A-13	50.0
A-3	45.2	A-1	46.4
A-13	40.0	A-3	44.2

TABLE 8h: COMPARISON PHASES II & III: PEC WITH LOWEST PERCENTAGE OF APPLICANTS CORRECTING WITH NO SEI CHANGE

Lowest Percentage Correcting With No SEI

Criterion Group	Percentage Correcting/No SEI Change	Criterion Group	Percentage Correcting/No SEI Change
B-1	7.1%	B-3	0%
A-16	10.9	A-11	11.0
A-11	11.2	B-1	12.7
B-3	12.5	A-10	12.7
A-10	12.7	B-5	15.0
A-15	15.9	D-3	17.6
D-3	17.0	A-16	17.7
A-14	18.9	A-15	18.1

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Table 9 which follows shows the percentage of validation applicants in each PEC group whose application information was correct at the time the applicant was validated. The applicant information is divided according to critical fields so that relationships between PEC "suspect" critical fields can be ascertained. It is assumed that the lower the percent of applicants with the correct information, the better the PEC in detecting potential misreporters. Conversely, the PEC with the highest percentage of applicants with correct information are least effective. Using this chart PEC groups can be compared to each other and critical fields can be analyzed in relation to each other to detemine those fields that are most often incorrect.

This chart supports previous analyses which show that A-4 is a very poor indicator of misreporting when used as part of the current edits and validation system. The table also shows the strong relationship between corrections to social security and veteran's fields and nontaxable income -- a relationship that would be expected. Further, the data indicate that PEC subgroups A-6, A-10, A-14 and A-15 perform well. Perhaps the most salient feature of the data, however, is the rate at which the nontaxable income field was valid. With the exception of PEC groups A-14 and 15 -- groups where NTI is expected almost by definition to change - the NTI field is changed relatively seldom as a result of validation. As mentioned in other reports, this suggests that 1) nontaxable income is being reported correctly by applicants, or 2) it is being reported incorrectly but not detected by validation. Considering the variety in types of NTI and the ease with which NTI can be left unreported, plus the difficulty in validating NTI information, further exploration of NTI sources, reporting trends and validation procedures is indicated.

As would also be expected, the number of applicants reported being paid increased significantly (by approximately 12%) for all PEC subgroups for Phase III (see Table 11). Only two subgroups had a substantially greater increase in the number being paid than average (subgroups A-19 (16) and B-3 (26)), while only one group had a substantially greater

TABLE 9: VALIDITY OF APPLICATION DATA AT SELECTION

% Valid at Selection

	AGI	PE	TP	NTI	PHE	HS	SSB	VEB
TOTAL	81.4	89.2	85.1	98.1	95.7	94.5	97.5	98.3
A- 1	82.6	88.5	87.9	97.2	97.2	94.8	96.7	98.2
A- 2	78.4	87.4	84.7	98.7	95.8	94.3	98.5	99.3
A- 3	78.3	88.1	86.9	99.5	96.2	95.2	99.4	99.4
A- 4	91.3	93.0	97.0	99.4	97.4	95.0	99.6	98.5
A- 5	78.7	89.0	87.1	98.4	94.8	94.9	98.8	99.4
A- 6	57.6	79.6	56.3	98.7	94.7	92.5	98.4	99.0
A- 7	87.1	92.0	88.4	99.5	95.4	93.8	99.5	99.2
A- 8	85.9	91.4	87.1	99.3	95.9	94.5	99.1	98.9
A- 9	86.4	92.4	89.4	97.9	96.3	94.0	97.0	99.4
A-10	84.8	90.9	88.2	90.4	96.5	94.5	76.2	97.8
A-11	79.7	89.3	84.6	99.8	96.2	94.1	99.5	97.4
A-12	90.9	92.0	94.2	97.4	96.9	96.0	96.7	87.6
A-13	88.9	88.9	88.9	100.0	100.0	100.0	88.9	77.8
A-14	85.6	91.8	88.9	94.6	95.4	93.3	90.4	85.9
A-15	83.5	91.6	87.7	94.2	97.5	95.4	92.3	89.1
A-16	92.2	96.1	89.6	98.0	94.8	96.7	100.0	100.0
A-17	89.3	94.3	91.0	99.2	97.2	95.4	98.8	99.3
A-18	81.2	89.4	85.8	99.0	97.4	96.0	97.4	98.0
A-19	88.6	92.3	91.7	99.3	96.8	95.8	98.4	99.1
A-20	80.6	88.1	84.0	98.4	83.0	91.0	97.7	99.1
A-21	76.2	85.0	80.1	98.4	95.6	93.7	98.1	99.1
B- 1	82.9	90.0	91.2	98.7	95.3	96.2	99.5	100.0
B- 2	89.4	93.3	91.1	99.1	96.9	95.5	99.0	99.4
B- 3	73.7	94.7	78.9	100.0	100.0	94.7	94.7	100.0
B- 4	90.6	92.4	90.6	98.1	90.6	90.6	96.2	94.3
B- 5	81.2	91.3	78.3	98.5	84.3	93.5	100.0	100.0
B- 6	75.4	86.9	79.9	99.0	95.6	94.2	99.1	99.7
C- 1	78.3	88.7	82.3	98.8	95.5	95.0	98.0	99.1
C- 2	89.1	92.6	91.3	98.5	96.4	95.6	97.7	98.7
C- 3	87.2	92.8	89.7	99.0	89.2	92.3	98.5	100.0
C- 4	79.0	86.7	81.6	99.1	96.0	94.0	98.5	99.3
D- 1	51.2	81.3	66.4	98.4	83.7	90.4	97.9	99.4
D- 2	72.4	83.9	76.6	98.4	94.2	93.3	98.1	99.2
D- 3	51.2	77.4	57.8	98.4	83.5	89.5	98.0	99.6

[ ] - worst

____ - best

TABLE 10: COMPARISON PHASES II AND III: PERCENTAGE OF APPLICANTS NOT EXPECTED TO BE PAID PLUS CURRENT ELIGIBILITY STATUS

	% Not Expected To Be Paid		% Not Expected To Be Paid But Currently Eligible	
	II	III	II	III
Criterion Group				
PEC APPLICANTS	43.8	31.3	94.2	92.6
Group A	44.7	32.4	93.9	92.3
A- 1	59.2	45.3	95.2	95.0
A- 2	44.2	32.0	93.4	91.6
A- 3	42.6	30.1	93.1	91.1
A- 4	49.7	37.8	96.1	95.7
A- 5	42.1	29.5	93.2	91.8
A- 6	45.2	33.1	91.1	88.3
A- 7	40.6	27.6	93.6	92.4
A- 8	41.2	27.3	94.7	93.9
A- 9	38.9	24.1	93.0	91.8
A-10	44.6	31.1	94.4	92.4
A-11	44.2	29.9	94.3	92.3
A-12	64.0	50.7	96.3	96.2
A-13	66.7	59.1	93.8	92.3
A-14	39.0	27.6	93.4	91.8
A-15	36.6	24.5	94.6	91.7
A-16	39.7	29.4	91.9	89.1
A-17	41.3	26.8	93.9	91.4
A-18	34.4	21.7	97.8	94.0
A-19	37.4	20.5	97.9	96.9
A-20	41.7	29.1	95.0	94.1
A-21	44.5	32.2	93.2	91.2
Group B	42.0	27.5	94.8	93.2
B- 1	40.2	29.4	89.1	84.0
B- 2	42.0	27.5	95.0	93.6
B- 3	50.0	24.0	90.9	66.7
B- 4	34.3	22.1	100.0	100.0
B- 5	40.5	28.1	92.8	93.3
B- 6	43.0	30.1	92.3	90.6
Group C	35.5	21.0	97.4	96.7
C- 1	33.6	19.8	96.7	93.7
C- 2	35.8	21.2	97.5	97.1
C- 3	27.4	14.1	100.0	100.0
C- 4	36.2	21.2	95.9	94.8
Group D	43.4	31.2	93.5	91.6
D- 1	40.1	28.0	94.7	92.8
D- 2	43.6	31.4	93.4	91.4
D- 3	40.2	28.1	94.2	91.7
Random	41.8	30.1	96.5	95.4
Total Valid	43.4	31.2	94.7	93.2

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decrease than average A-13 (7.6). In line with the increase in recipients, the percentage of applicants not expected to be paid but currently eligible decreased, albeit very slightly, for all PEC subgroups, except B-3. The 24 percent decrease for B-3 most probably results from the small number of subjects in the group and the fact that this Phase's sampling most likely selected some individuals previously excluded from the subgroup.

PEC subgroups A-1, A-4, A-12 and A-13 continue to have the highest percentage of applicants not expected to be paid. A very high percentage of applicants in three of these four groups remain currently eligible. As suggested in previous reports, this may indicate that these subgroups - A-1 (household size and marital status missing), A-4 (low income) and A-12 (VA blank or 0 and applicant verifies) are acting as unnecessary barriers and deterring eligible applicants from becoming recipients.

Table 11 shows that as the number of recipients increases, the possible dollar savings to BOFA for validation applicants decreases. Not only does potential savings decrease because of the additional applicants claiming their award, but the average dollar difference between selection and the current transaction decreased by several dollars.

Just as the edits and the PEC data remained almost constant through Phases II and III, so too did validation related data. Examination of Table 12 indicates that validation continues to have an impact on applicant's post-selections corrections behavior and resulting SEI change. Approximately 25 percent more validation applicants than nonvalidation applicants corrected post-selection/eligible, and their corrections resulted in much greater SEI change.

In summary, these findings confirm the July report and indicate that April data tends to be a valid indicator of total academic year trends.

TABLE 11: ESTIMATED DOLLAR SAVINGS FOR CURRENTLY ELIGIBLE VALIDATION APPLICANTS NOT ON THE RECIPIENT FILE[1]

APPLICANTS NOT EXPECTED TO BE PAID			
Criterion Group	$ Differences Between Selection & Current Transaction[2]	# of Applicants Currently Eligible	Estimated Savings[3]
PEC APPLICANTS	-16.4	48,134	$790,218
A	-16.7	41,203	688,090
A-1	- 3.1	1,142	3,540
A-2	-13.9	20,154	380,911
A-3	-17.6	10,391	182,382
A-4	- 3.0	6,523	19,569
A-5	-17.3	2,631	45,529
A-6	-31.7	13,159	417,159
A-7	- 2.7	1,992	5,378
A-8	- 9.3	2,298	22,517
A-9	- .9	812	731
A-10	-26.9	6,320	170.030
A-11	-29.6	3,437	101,746
A-12	- 9.8	1,292	12,562
A-13	0	24	0
A-14	-26.2	1,828	46,057
A-15	-41.3	310	12,803
A-16	-21.1	114	2,403
A-17	- 8.3	1,736	14,407
A-18	-38.9	158	6,144
A-19	-25.7	754	19,372
A-20	-17.1	1,576	26,946
A-20	-15.6	18,666	291,188
B	- 8.1	5,433	44,007
B-1	- 5.2	158	- 390
B-2	- 8.6	5,264	45,268
B-3	-50.0	8	400
B-4	-35.9	30	1,077
B-5	-41.0	100	4,100
B-6	- 8.2	1,098	9,000
C	-22.0	2,664	58,600
C-1	-32.8	298	9,774
C-2	-20.6	2,367	48,760
C-3	- 0	54	0
C-4	-40.7	692	28,164
D	-16.2	22,148	374,397
D-1	-19.2	3,947	75,782
D-2	-15.0	22,017	352,272
D-3	-19.6	2,311	55,296
RANDOM	- 2.9	13,521	39,211
TOTAL	-13.4	61,695	826,713

1/ Savings is due to lower current expected payment than at selection.

2/ In this column minus symbols indicate expected savings; plus symbols indicate the need for additional payment.

3/ The estimated savings figures are based on the assumption that all currently eligible applicants will re-enter the system and be paid. Negative figures in this column represent potential increased disbursements.

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TABLE 12: PRE- AND POST-SELECTION (ELIGIBILITY) CORRECTION BEHAVIOR OF VALIDATION AND NONVALIDATION APPLICANTS

Applicant Subgroups	VALIDATION APPLICANTS						NONVALIDATION APPLICANTS					
	Number of Applicants Selected	% of Validation Population	Percentage of Subgroup Applicants With Pre-Selection Field Change	Average SEI Change	Percentage of Subgroup Applicants With Post-Selection Field Change	Average SEI Change	Number of Applicants Selected	% of Validation Population	Percentage of Subgroup Applicants With Pre-Selection Field Changes	Average SEI Change	Percentage of Subgroup Applicants With Post-Selection Field Change	Average SEI Change
PEC Applicants	166,106	78	73	-65	32	195	519,139	20	71	91	5	41
PEC Group A	137,870	65	74	95	32	258	519,135	20	71	91	5	41
A-1	2,654	1	88	-203	28	99	10,936	0	85	277	4	41
A-2	68,710	32	81	212	33	190	125,786	5	78	180	6	41
A-3	36,846	17	72	237	32	231	42,966	2	68	160	6	55
A-4	18,054	9	55	14	26	71	114,408	4	48	11	5	7
A-5	9,178	5	81	280	35	292	9,138	0	85	195	8	46
A-6	44,973	21	79	282	39	248	131,036	5	85	188	6	75
A-7	7,859	4	91	130	32	139	29,186	1	91	91	7	49
A-8	8,364	4	93	68	30	105	81,970	3	89	28	6	85
A-9	1,817	1	98	452	31	87	1,774	0	79	207	11	262
A-10	21,949	10	89	96	36	157	52,872	2	82	222	4	0
A-11	12,498	6	85	101	38	142	2,282	0	86	144	8	17
A-12	2,636	1	47	2	23	197	6,020	0	80	162	6	115
A-13	44	0	86	19	23	73	-					
A-14	7,214	3	60	62	40	122	17,696	1	67	60	7	40
A-15	1,390	1	91	58	48	118						
A-16	436	0	97	144	24	-71						
A-17	7,089	3	95	-464	26	140						
A-18	774	0	96	-156	26	111						
A-19	3,798	2	92	-294	22	159						
A-20	5,760	3	75	69	40	86						
A-21	61,494	30	79	155	21	178						
PEC Group B	21,152	10	95	-819	25	105						
B-1	600	0	98	- 7	33	41						
B-2	20,488	10	94	-847	24	111						
B-3	50	0	96	-357	36	105						
B-4	136	0	99	-680	21	94						
B-5	384	0	96	-745	38	104						
B-6	4,078	2	96	-588	15	112						
PEC Group C	13,094	6	95	-530	23	175						
C-1	1,608	1	97	-230	30	107						
C-2	11,512	7	95	-573	22	128						
C-3	454	0	96	-521	28	88						
C-4	1,444	2	97	-471	33	117						
PEC Group D	81,012	38	73	79	38	119						
D-1	15,186	7	41	- 6	49	28						
D-2	76,224	36	73	87	38	121						
D-3	10,898	7	77	54	54	77						
RANDOM	46,242	22	25	44	23	58	2,121,856		6	77	4	42
TOTAL	212,348	100	63	- 56	30	130	2,647,990		20	61	4	42

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APPENDIX A

TABLE SPECIFICATIONS FOR MONITORING IMPACT OF VALIDATION AND EDITS

INDEX AND DESCRIPTION OF PROPOSED TABLES

TABLE 1: OVERVIEW PROFILE OF APPLICANTS' CORRECTIONS, BY CURRENT ELIGIBILITY STATUS

The purpose of this table is to show the population's overall correction behaviors--whether critical fields were corrected, if the corrections were solicited or not, the impact of corrections on eligibility index, and the current eligibility status of applicants.

CROSS-REFERENCE FOR
1978-79 STANDARDS: Exhibit 2.1, p. 2.6 of July 3, 1980 VEAP report.

TABLE 2: BEHAVIOR OF APPLICANTS SUBSEQUENT TO RECEIVING REJECTION COMMENTS TO CRITICAL FIELDS

Table 2 examines rejected applicants by reject reason and specific related comments to critical fields. The post edit behavior and resultant eligibility status are provided. Impact is measured in terms of overall and directional eligibility index and payment changes.

CROSS-REFERENCE FOR
1978-79 STANDARDS: Table 2.8, p. 2.25
Table 2.10, p. 2.29
TAble 2.11, p. 2.31

TABLE 3: SUMMARY OF APPLICANT CORRECTIONS TO CRITICAL FIELDS

This table groups applicants according to whether or not they received edits to critical fields and shows whether or not a correction was made to the field in question. Impact of corrections is measured in terms of directional eligibility index and payment changes.

CROSS-REFERENCE FOR
1978-79 STANDARDS: Table 2.1, p. 2.4

TABLE 4: CURRENT PAYMENT AND ELIGIBILITY STATUS OF APPLICANTS

This table describes the previous and current eligibility status of applicants, whether or not comments were received, and whether or not they appear on the recipient file. Replications are suggested by dependency and validation status.

CROSS-REFERENCE FOR
1978-79 STANDARDS: Exhibit 2.2, p. 2.12
Exhibit 2.3, p. 2.16
Table 2.13, p. 2.34

TABLE 5: PROFILE BY [illegible] AND PREVIOUS ELIGIBILITY STATUS

Table 5 provides a profile of applicant descriptors relative to rejection status. The profile includes all characteristics which were found to be significant in the [illegible] report, and may be used to detect whether any groups seem to be systematically excluded after rejection.

CROSS-REFERENCE FOR
1979-80 STANDARDS: [illegible], p. 2.17
[illegible], p. 2.19
[illegible], p. 2.20

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TABLE 6: OVERVIEW PROFILE OF VALIDATION APPLICANTS' CORRECTION AND AWARD CHANGE BEHAVIORS

Table 6 provides overview information on validation impact in terms of percentage correcting and eligibility and payment change. Directional changes are indicated, and measures are based on total applicants (to be consistent with the EPM report) as well as only those who submitted corrections (to be consistent with the VEAP report).

CROSS-REFERENCE FOR 1979-80 STANDARDS:

Table 3.1, p. 3.3
Table 3.2, p. 3.7
Table 3.3, p. 3.10
Table 3.4, p. 3.11
Table 3.5, p. 3.12
Table 3.6, p. 3.14
Table 3.7, p. 3.14
Table 3.13, p. 3.29
Table 3.14, p. 3.29

TABLE 7: SUMMARY OF APPLICANTS' CORRECTIONS TO FIELDS

This table measures whether or not applicants corrected fields prior to selection, and whether the correction was solicited, as well as whether the field was corrected after selection. Measures are provided for applicants meeting each selection criterion and for each critical field.

CROSS-REFERENCE FOR 1978-79 STANDARDS:

Table 2.3, p. 2.10
Table 3.9, p. 3.17
Table 3.10, p. 3.20
Table 4.1, p. 4.3

TABLE 8: SUMMARY OF INTERACTION EFFECTS OF VALIDATION AND EDITS

Table 8 uses verified values (from payment transaction) for each critical field as a standard for determining whether:

- the edits were needed at all;
- the edits were effective and validation was not needed; and
- whether the edits were not effective and validation was needed.

CROSS-REFERENCE FOR
1979-80 STANDARDS: Table 4.5, p. 4.13

TABLE 9: COMPARISON OF CORRECTIONS BEHAVIOR OF VALIDATION APPLICANTS IN RESPONSE TO REJECTION EDITS AND THEIR CORRESPONDING CRITERIA

Table 9 also examines the interaction of validation and edits. It links specific criteria with their corresponding edits and contrasts the impact of pre-selection corrections in response to specific edits with post-selection corrections for applicants meeting corresponding validation criteria.

CROSS-REFERENCE FOR
1979-80 STANDARDS: Table 4.4, p. 4.11

TABLE 1: OVERVIEW PROFILE OF APPLICANTS' CORRECTIONS, BY CURRENT ELIGIBILITY STATUS FOR *

	TOTAL APPLICANTS	CURRENTLY ELIGIBLE	CURRENTLY INELIGIBLE	CURRENTLY REJECTED
TOTAL APPLICANTS				
NEVER CORRECTED ANY FIELD				
DID CORRECT A FIELD				
NEVER CORRECTED A CRITICAL FIELD				
CORRECTED A CRITICAL FIELD				
SUBMITTED A SOLICITED CORRECTION				
SUBMITTED AN UNSOLICITED CORRECTION				
SUBMITTED A MIXED CORRECTION				

*REPLICATIONS:

- TOTAL APPLICANTS
- APPLICANTS WHO RECEIVED CRITICAL FIELD COMMENTS
- APPLICANTS WHO DID NOT RECEIVE CRITICAL FIELD COMMENTS

CELL:

- FREQUENCY
- ROW %
- COLUMN %
- OVERALL $\bar{X}$ EI CHANGE
- NUMBER RAISED EI
- $\bar{X}$ EI RAISED
- NUMBER LOWERED EI
- ROW %
- COLUMN %
- $\bar{X}$ EI LOWERED
- NUMBER NO EI CHANGE
- ROW %
- COLUMN %
- OVERALL $\bar{X}$ EXPECTED
- DISBURSEMENT CHANGE
- NUMBER ED RAISED, %
- ROW %
- COLUMN %
- $\bar{X}$ ED RAISED
- NUMBERED LOWERED, %
- ROW %
- COLUMN %
- $\bar{X}$ ED LOWERED
- NUMBER NO ED CHANGE

A.5

TABLE 2: BEHAVIOR OF APPLICANTS SUBSEQUENT TO RECEIVING REJECTION COMMENTS TO CRITICAL FIELD

REJECTION EDIT/COMMENT	TOTAL # WHO EVER RECEIVED EDIT/ COMMENT	VERIFIED SUBSEQUENTLY	CORRECTED RELATED FIELD SUBSEQUENTLY	CORRECTED, BECAME ELIGIBLE	CORRECTED, BECAME INELIGIBLE	CORRECTED, REMAINED REJECTED	# WHO RECEIVED EDIT ON FIRST TRANSACTION
TOTAL REJECTED APPLICANTS.							
A.							
259							
B.							
10.							
12.							
13.							
128							
247							
297							
298							
299							
C.							
etc.							

CELL:

- FREQUENCY
- ROW %
- COLUMN %
- OVERALL X EI CHANGE
- NUMBER RAISED EI
- $\bar{X}$ EI RAISED
- NUMBER LOWERED EI
- ROW %
- COLUMN %
- $\bar{X}$ EI LOWERED
- NUMBER NO EI CHANGE
- ROW %
- COLUMN %
- OVERALL X EXPECTED
- DISBURSEMENT CHANGE
- NUMBER ED RAISED, %
- ROW %
- COLUMN %
- $\bar{X}$ ED RAISED
- NUMBERED LOWERED, %
- ROW %
- COLUMN %
- $\bar{X}$ ED LOWERED
- NUMBER NO ED CHANGE

TABLE 3: SUMMARY OF APPLICANT CORRECTIONS B Y CRITICAL FIELDS

CRITICAL FIELD:	APPLICANTS WHO EVER RECEIVED EDIT(s) TO CRITICAL FIELDS			APPLICANTS NEVER RECEIVING AN EDIT TO A CRITICAL FIELD	
	RECEIVED EDIT TO CRITICAL FIELD	NEVER CHANGED FIELD	CHANGED FIELD-TOTAL	NEVER RECEIVED EDIT-TOTAL	CHANGED FIELD
AGI					
[illegible]					
[illegible]					
[illegible]					
[illegible]					
HS					
PHE					
NA					
UE					
UT					
AR [illegible]					
MS					
MODEL					
TAX F.S.					
TOTAL					

REPLICATIONS

TOTAL

APPLICANTS WHO WERE EVER REJECTED

CELL:

FREQUENCY
ROW %
COLUMN %
OVERALL X EI CHANGE
NUMBER RAISED EI
$\bar{X}$ EI RAISED
NUMBER LOWERED EI
ROW %
COLUMN %
$\bar{X}$ EI LOWERED
NUMBER NO EI CHANGE
ROW %
COLUMN %
OVERALL X EXPECTED DISBURSEMENT CHANGE
NUMBER ED RAISED, %
ROW %
COLUMN %
$\bar{X}$ ED RAISED
NUMBERED LOWERED, %
ROW %
COLUMN %
$\bar{X}$ ED LOWERED
NUMBER NO ED CHANGE

TABLE 4: CURRENT PAYMENT AND ELIGIBILITY STATUS OF ___ * ___ APPLICANTS

Edit Type	EVER REJECTED					NEVER REJECTED	TOTAL APPLICANTS
	Currently Rejected		Previously Rejected, Currently Eligible or Ineligible	Previously Rejected, Currently Eligible	Previously Rejected, Currently Ineligible		
	Rejected on One Transaction	Rejected Two or more Transactions					
Rejection Edits							
A							
259							
etc.							
Assumption Edits							
4							
5							
etc.							
Other Edits							
109							
etc.							
Total Who Received Edits to Critical Fields							
Total Who Did Not Receive Edits							
GRAND TOTAL							

*Replications:
Total
Dependents
Independents
Validation
Nonvalidation

Cells:
Frequency
Row %
Column%
Percent who ever corrected critical fields
Percent expected to be paid

TABLE 5: PROFILE BY CURRENT AND PREVIOUS STATUS FOR *

	EVER REJECTED					NEVER REJECTED	TOTAL APPLICANTS
	Currently Rejected		Previously Rejected, Currently Eligible or Ineligible	Previously Rejected, Currently Eligible	Previously Rejected, Currently Ineligible		
	Rejected on One Transaction	Rejected Two or more Transactions					
Total							
Dependency Status							
Dependent							
Independent							
Unknown							
Adjusted Gross Income							
Less than Zero							
Zero							
1 - 999							
1,000 - 1,999							
2,000 - 3,999							
4,000 - 6,999							
7,000 - 9,999							
10,000 - 12,499							
12,500 - 14,499							
15,000 - 17,499							
17,500 - 19,999							
20,000 - 24,999							
25,000 + above							
Unknown							
Taxes Paid							
Less Than 500							
500 - 999							
1,000 - 1,499							
1,500 and above							
Unknown							
Household Size							
1 - 2							
3 - 4							
5 - 6							
7 and above							
Unknown							
Post High Enrollment							
1							
2							
3							
4							
5 and above							
Unknown							

*Replications:

Total Applicants
Dependents
Independents
Validation
Nonvalidation

Cell:

Frequency
Row Percent
Column Percent

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Nontaxable Income
- Zero
- 1 - 999
- 1,000 - 1,999
- 2,000 - 3,999
- 4,000 - 6,999
- 7,000 - 9,999
- 10,000 - 12,499
- Unknown

Applicant Resources
- Zero
- 1 - 99
- 100 - 499
- 500 and above
- Unknown

Unusual Expenses
- Zero
- 1 - 1,000
- 1,001 - 3,000
- 3,001 - 6,000
- 6,001 - 9,000
- 9,001 - 12,000
- 12,000 and above
- Unknown

Unreimbursed Tuition
- Zero
- 1 - 500
- 501 - 1,000
- 1,001 - 1,500
- 1,500 - 2,000
- 2,001 - 3,000
- 3,001 and above
- Unknown

Tax Filing Status
- Estimated
- Filed
- Will Not File

Income (AGI + NTI)
- Less than Zero
- Zero
- 1 - 999
- 1,000 - 1,999
- 2,000 - 3,999
- 4,000 - 6,999
- 7,000 - 9,999
- 10,000 - 12,499
- 12,500 - 14,499
- 15,000 - 17,499
- 17,500 - 19,999
- 20,000 - 24,999
- 25,000 and above

Marital Status
- Married
- Single
- Divorced
- Widowed
- Separated
- Deceased
- Unknown

Veteran Ed. Benefits
- Zero
- 1,001 - 2,000
- 2,001 - 3,000
- 3,001 - 4,000
- 4,001 - 5,000
- 6,001 - 6,000
- 7,001 and above
- Unknown

Earned Income Portions
- One
- Two

TABLE 6: OVERVIEW PROFILE OF VALIDATION APPLICANTS' CORRECTION AND AWARD CHANGE BEHAVIORS

	NUMBER SELECTED/ PERCENT	PERCENT CORRECTING POST-SELECTION	AVERAGE EI CHANGE: [1]		AVERAGE PAYMENT CHANGE: [1]		PERCENT CORRECTING WITH NO EI/PAYMENT CHANGE
			OVERALL [2]	CORRECTING [3]	OVERALL [2]	CORRECTING [3]	
VALIDATION GROUPS:							
TOTAL							
TOTAL PEC/EPM							
TOTAL PEC							
A5							
A6							
etc.							
TOTAL EPM							
E4							
E5							
etc.							
RANDOM							

CELL:

DEFINED BY
ROWS AND COLUMNS
EXCEPT FOR 1/

FREQUENCY EI/PAYMENT CHANGE
COLUMN %
$\bar{x}$ EI/PAYMENT CHANGE
FREQUENCY EI/PAYMENT INCREASE
COLUMN %
$\bar{x}$ EI/PAYMENT INCREASE
FREQUENCY EI/PAYMENT DECREASE
COLUMN %
$\bar{x}$ EI/PAYMENT DECREASE
FREQUENCY EI/PAYMENT NOT CHANGED
COLUMN %

2/ OVERALL CHANGE IS COMPUTED USING ALL APPLICANTS

3/ CORRECTING CHANGE IS COMPUTED USING ONLY APPLICANTS WHO CORRECTED

TABLE 7: SUMMARY OF * APPLICANTS' CORRECTIONS TO **

APPLICANT GROUPS:	TOTAL APPLICANTS	CORRECTED FIELD PRE-SELECTION-TOTAL	CORRECTED FIELD PRE-SELECTION-SOLICITED	CORRECTED FIELD POST-SELECTION-TOTAL
Total *				
PEC/EPM TOTAL				
PEC TOTAL				
A-5				
A-6				
etc.				
EPM TOTAL				
E-4				
E-5				
etc.				
RANDOM				

REPLICATIONS:

- *Total
- Validation - Pre-selection
- Validation - Post-selection
- Nonvalidation - Pre-eligibility
- Nonvalidation - Post-eligibility

**Any Critical Fields

- AGI
- NTI
- TP
- VEB
- HS
- PHE
- NA
- UT
- UE
- MODEL
- TFS
- MS
- PORTIONS
- AR

CELL:

- FREQUENCY
- ROW %
- COLUMN %
- OVERALL % EI CHANGE
- NUMBER RAISED EI
- % EI RAISED
- NUMBER LOWERED EI
- ROW %
- COLUMN %
- % EI LOWERED
- NUMBER NO EI CHANGE
- ROW %
- COLUMN %
- OVERALL % EXPECTED
- DISBURSEMENT CHANGE
- NUMBER ED RAISED, %
- ROW %
- COLUMN %
- % ED RAISED
- NUMBERED LOWERED, %
- ROW %
- COLUMN %
- % ED LOWERED
- NUMBER NO ED CHANGE

TABLE 8: SUMMARY OF INTERACTION EFFECTS OF VALIDATION AND EDITS ON *

	VALIDATION FIELDS:							
	ADJUSTED GROSS INCOME	SUM OF PORTIONS EARNED	TAXES PAID	NON TAXABLE INCOME	# IN POST-HIGH ED	HOUSE-HOLD SIZE	VETERAN'S EDUCATIONAL BENEFITS	TOTAL
TOTAL NUMBER OF VALIDATION APPLICANTS WHO WERE PAID AT OR AFTER SELECTION AND WHO RECEIVED EDIT PRIOR TO SELECTION . .								
APPLICANTS WHOSE VALUE AT PAYMENT DOES NOT = VALUE AT SELECTION AND = VALUE AT EDIT.								
APPLICANTS WHOSE VALUE AT PAYMENT = VALUE AT SELEC-TION AND IS NOT = TO VALUE AT EDIT.								
APPLICANTS WHOSE VALUE AT PAYMENT DOES NOT = VALUE AT SELECTION AND IS NOT = TO VALUE AT EDIT:.								
APPLICANTS WHOSE VALUE AT PAYMENT = VALUE AT SELECTION AND = VALUE AT EDIT . . .								

*REPLICATIONS:

- TOTAL VALIDATION APPLICANTS
- VALIDATION APPLICANTS RECEIVING REJECTION EDIT:

A
B
C
D
E
F
G
H
I
J
etc.

CELL:

- FREQUENCY
- COLUMN %
- ROW %
- X FIELD VALUE AT PAYMENT
- X FIELD VALUE AT SELECTION
- X FIELD VALUE AT EDIT

NOTE: FIELD VALUES SHOULD BE CONSIDERED EQUAL IF THEY ARE WITHIN THE VALIDATION TOLERANCE RANGES

TABLE 9: COMPARISON OF CORRECTIONS BEHAVIOR OF VALIDATION APPLICANTS IN RESPONSE TO REJECTION EDITS AND THEIR CORRESPONDING CRITERIA

Rejection Reason/ Selection Criterion	Pre-Selection Corrections In Response to Edit			Post-Selection Corrections		
	Reject Edit	Percent[1/] Correcting	Average EI, Potential[2/] Payment Change	Criteria	Percent[3/] Correcting	Average EI, Potential[4/] Payment Change
Reported Tax Greater than Computed Tax by $300 and 50% of Computed Tax	G			A-6		
Unreimbursed Tuition Greater Than 3% of Income	L			A-5		
SSA Match - Blank or Zeroes	S			A-10, A-11		
SSA Match - SS Benefits Reported	I			A-10, A-11		
VA Reported and Less Than $131	V			A-14, A-15		
Estimated Income	IBN			EPM 4, 5, 7 8, 10		

1/ Percentage correcting relevant field on transaction just subsequent to receiving edit.

2/ Calculated from receipt of edit to first subsequent transaction.

3/ Percentage correcting relevant field between selection transaction and current transaction.

4/ Calculated from selection transaction to current transaction.

A.15

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